

Introduction to Bronchoscopy and Pulmonary Procedures Course June 2023

TeleConference Thursday, June 29, 2023

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| 08:00 am – 08:10 am | Introduction Mihir Parikh MD Beth Israel Deaconess Medical Center Harvard Medical School |
| 08:10 am – 08:30 am | Bronchoscopy Past, Present and Future Erik Folch MD Massachusetts General Hospital Harvard Medical School |
| 08:30 am – 09:00 am | Airway, Mediastinal and Pleural Anatomy Chenchen Zhang MD Beth Israel Deaconess Medical Center Harvard Medical School |
| 09:00 am – 09:30 am | Bronchoscopy: Type, Indications and Contraindications Adnan Majid MD Beth Israel Deaconess Medical Center Harvard Medical School |
| 09:30 am – 10:00 am | Bronchial washings, bronchoalveolar lavage and bronchial brushing Carla Lamb MD Lahey Hospital and Medical Center Tufts University School of Medicine |
| 10:00 am – 10:30 am | Break |
| 10:30 am – 11:00 am | Transbronchial needle aspiration, transbronchial and endobronchial biopsy Marianne Barry MD Tufts Medical Center Tufts University School of Medicine |
| 11:00am – 11:30 am | Ultrasound basics and Ultrasound-guided thoracentesis Jason Beattie MD Beth Israel Deaconess Medical Center Harvard Medical School |
| 11:30 am – 12:00 pm | Pleural catheters Colleen Keyes MD Massachusetts General Hospital Harvard Medical School |
| 12:00 pm – 12:30 pm | Pulmonary Consults 101: Hemoptysis, foreign body aspiration, and pneumothorax Fayez Kheir MD Beth Israel Deaconess Medical Center Harvard Medical School |



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Introduction to Bronchoscopy and Pulmonary Procedures Course June 2023

**Hands-on Experience with Deliberate Practice and Expert Guidance
Friday, June 30, 2023**

Carl J Shapiro Simulation and Skills Center
Shapiro Clinical Building, Rm G20
330 Brookline Avenue
Beth Israel Deaconess Medical Center
Boston, Massachusetts 02215

Trainees will be scheduled for a 3-hour hands-on session. Small groups will consist of four trainees with two faculty members to adhere to appropriate social distancing guidelines.

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| Station 1 | Airway anatomy and Foreign Body Removal |
| Goals | Understand normal airway anatomy using simulation bronchoscopy |
| | Recognize anatomical landmarks of major mediastinal and hilar lymph node stations |
| | Recognize patients at risk for foreign body aspiration |
| | Identify available tools frequently used for endoscopic removal of aspirated foreign body |

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| Station 2 | Percutaneous Chest Tubes and Ultrasound-guided Thoracentesis |
| Goals | Recognize superficial and ultrasound landmarks for thoracic anatomy |
| | Review technique for percutaneous chest tube placement |
| | Understand management of three chamber pleural drainage system |
| | Review technique for US guided thoracentesis |
| | Review technique for measurement of pleural manometry |

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| Station 3 | Vascular Ultrasound and Central Venous Catheters |
| Goals | Recognize superficial and ultrasound landmarks for vascular anatomy |
| | Demonstrate successful US guided placement of central venous and hemodialysis catheters |
| | List and compare risks and benefits for subclavian, internal jugular, and femoral venous access |
| | Review best practices for supervision and instruction of trainees for CVC insertion |

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| Station 4 | TBNA, Management of Hemoptysis, and Difficult Airway Management |
| Goals | Review technique for transbronchial needle aspiration |
| | Understand initial approach to management of massive hemoptysis |
| | Understand airway assessment |
| | Review basic pharmacology for general anesthesia and conscious sedation |
| | Review technique for direct laryngoscopy, awake fiberoptic endotracheal intubation, and cricothyrotomy |
| | Review difficult airway algorithm and rescue maneuvers |



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Course Director :

Mihir Parikh MD
Interventional Pulmonology
Beth Israel Deaconess Medical Center
Instructor in Medicine
Harvard Medical School

Course Co-Directors :

Adnan Majid MD
Director and Chief, Interventional Pulmonology
Beth Israel Deaconess Medical Center
Associate Professor of Medicine
Harvard Medical School

Chenchen Zhang MD
Interventional Pulmonology
Beth Israel Deaconess Medical Center
Instructor in Medicine
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Jason Beattie MD
Interventional Pulmonology
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Course Faculty :

Anas Ahmed MBBS
Pulmonary and Critical Care Medicine
Tufts Medical Center
Assistant Professor of Medicine
Tufts University School of Medicine

Khaled Alshabani MD
Interventional Pulmonology
Beth Israel Deaconess Medical Center

Marianne Barry MD
Interventional Pulmonology
Tufts Medical Center
Assistant Professor of Medicine
Tufts University School of Medicine

Jason Beattie MD
Interventional Pulmonology
Beth Israel Deaconess Medical Center
Instructor in Medicine
Harvard Medical School

Sam Belok MD
Pulmonary and Critical Care Medicine
Boston Medical Center
Assistant Professor of Medicine
Boston University School of Medicine

Ehab Billatos MD
Pulmonary and Critical Care Medicine
Boston Medical Center
Assistant Professor of Medicine
Boston University School of Medicine

Erik Folch MD
Co-Director, Interventional Pulmonology
Chief, Complex Chest Disease Center
Massachusetts General Hospital
Assistant Professor of Medicine
Harvard Medical School

Colleen Keyes MD
Co-Director, Interventional Pulmonology
Massachusetts General Hospital
Instructor in Medicine
Harvard Medical School

Shahzad Khan MD
Pulmonary and Critical Care Medicine
UMass Memorial Medical Center
Assistant Professor
University of Massachusetts Medical School

Fayez Kheir MD
Interventional Pulmonology
Massachusetts General Hospital
Assistant Professor of Medicine
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Jorge Munoz Pineda MD
Interventional Pulmonology
Beth Israel Deaconess Medical Center

Michael Murn MD
Interventional Pulmonology
Beth Israel Deaconess Medical Center



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Course faculty (continued)

Paulo Oliveira MD
Director, Interventional Pulmonary Procedures
Medical Director, Respiratory Care
UMass Memorial Medical Center
Associate Professor
University of Massachusetts Medical School

Frank Schembri MD
Pulmonary and Critical Care Medicine
South Shore Health
Assistant Professor of Medicine
Boston University School of Medicine

Majid Shafiq MD
Medical Director, Interventional Pulmonology
Brigham and Women's Hospital
Assistant Professor of Medicine
Harvard Medical School

Sandeep Somalaraju MD
Interventional Pulmonology
Lahey Hospital and Medical Center

Rebecca Sternschein MD
Brigham and Women's Hospital
Instructor in Medicine
Harvard Medical School

Kai Swenson MD
Interventional Pulmonology
Beth Israel Deaconess Medical Center

Sanket Thakore MD
Interventional Pulmonology
Yale New Haven Hospital
Instructor in Medicine
Yale School of Medicine

Molly Trachtenberg ACNP-BC
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Ekaterina Yavarovich DO
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